



IALA AND THE WORLD-WIDE ACADEMY

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Dean of the World-Wide Academy



CONTENTS

- IALA – The International Association of Marine Aids to Navigation and Lighthouse Association
 - The World-Wide Academy
 - The Future,
from Non-Governmental to Inter-Governmental
-



About IALA

International Association of Marine Aids to Navigation and Lighthouse Authorities



Aids to Navigation

IALA Constitution Art. 1

“A device, system or service, external to vessels, designed and operated to enhance safe and efficient navigation of individual vessels and/or vessel traffic”





The IALA Strategic Vision

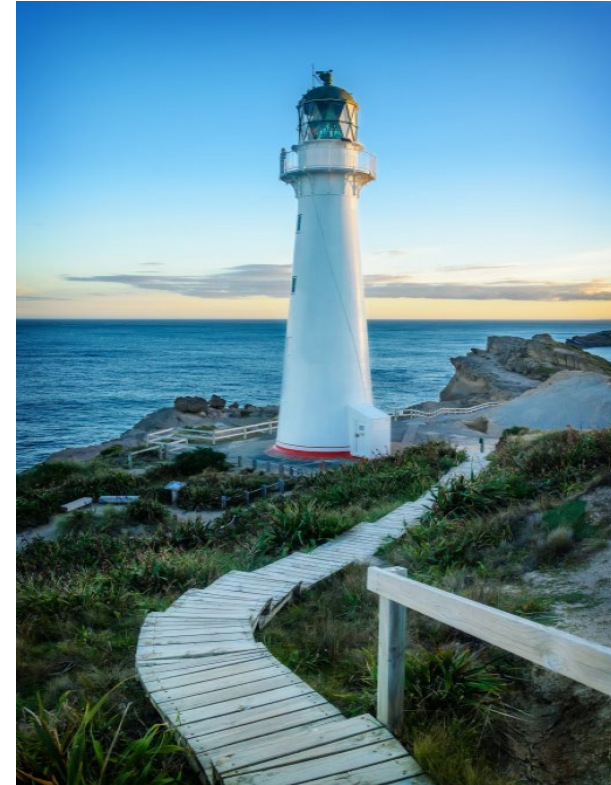
Strategic Goals:

Goal 1

Marine Aids to Navigation are developed and harmonized through international cooperation and the provision of standards.

Goal 2

All coastal States have contributed to a sustainable and efficient global network of Marine Aids to Navigation through capacity building and the sharing of expertise.





The IALA 'motto' and principal aims

"Successful voyages, sustainable planet"

- To harmonise standards for Aids to Navigation systems worldwide
 - To facilitate the safe and efficient movement of shipping
 - To enhance the protection of the marine environment
-



Four types of Membership

- 92 National Members (Coastal States)
- 76 Associate Members
- 156 Industrial Members
- 47 Honorary Members



The Committees

The “Power House” of IALA

- Aids to Navigation Requirements and Management, ARM
- Engineering and Sustainability, ENG
- e-Navigation Information Services and Communications, ENAV
- Vessel Traffic Services, VTS





Publications

Main result of the Committees' work

- **Standards** which can be referred to directly in IMO and other international conventions and in national maritime laws.
- **Recommendations** which advise what should be done.
- **Guidelines** which advise how to implement the recommendations as 'best practice'.
- **Manuals** which provide general reference materials (NAVGUIDE; MBS; VTS Guide; IALA Dictionary).
- **Model courses** which provide guidance on the training of VTS personnel, Aids to Navigation Managers and Aids to Navigation Technicians.

IALA STANDARDS

IALA standards are suitable for implementation by all Marine Aids to Navigation authorities.



STANDARD 1010 ATON PLANNING AND SERVICE REQUIREMENT

- 1.1 Marine Aids to Navigation planning
- 1.2 Obligations and regulatory compliance
- 1.3 Levels of service
- 1.4 Risk management
- 1.5 Quality management
- 1.6 Virtual marking



STANDARD 1020 ATON DESIGN AND DELIVERY

- 2.1 Visual signalling
- 2.2 Range and performance
- 2.3 Design, implementation, and maintenance
- 2.4 Floating aids to navigation
- 2.5 Environment and sustainability
- 2.6 Heritage and legacy
- 2.7 Power systems



STANDARD 1030 RADIONAVIGATION SERVICES

- 3.1 Satellite positioning and timing
- 3.2 Terrestrial positioning and timing
- 3.3 Racon and radar positioning
- 3.4 Augmentation services



STANDARD 1040 VESSEL TRAFFIC SERVICES

- 4.1 VTS implementation
- 4.2 VTS operations
- 4.3 VTS data and information management
- 4.4 VTS communications
- 4.5 VTS technologies
- 4.6 VTS auditing and assessing
- 4.7 VTS additional services



STANDARD 1050 TRAINING AND CERTIFICATION

- 5.1 Training and assessment
- 5.2 Human factors and ergonomics
- 5.3 Simulation in training
- 5.4 Capacity building
- 5.5 Competency, certification and revalidation



STANDARD 1060 DIGITAL COMMUNICATION TECHNOLOGIES

- 6.1 Wide and medium bandwidth systems
- 6.2 Narrow bandwidth systems
- 6.3 Harmonised maritime connectivity



STANDARD 1070 INFORMATION SERVICES

- 7.1 Data models and data encoding
- 7.2 Data exchange systems
- 7.3 Terminology, symbology and portrayal

Superseded documents and publications are available on request to the secretariat, contact@iala-aism.org

The Maritime Buoyage Agreement

IALA A and IALA B

During the IALA conference in November 1980 two navigation marking systems, i.e. the System A (green color to starboard) and the System B (red color to starboard), were combined into one - the **IALA Maritime Buoyage System**.





TECHNICAL DOCUMENTS CATALOGUE

ED 4.0 • JANUARY 2022

*Successful voyages,
Sustainable planet.*





STANDARD 1010 ATON PLANNING AND SERVICE REQUIREMENT

1.1 Aids to Navigation planning

Maritime buoyage system

No	N/I	Date	Title	Ed	Summary
<u>R1001</u> ARM	Nor	June 2017	IALA Maritime Buoyage System	1.1	IALA Maritime Buoyage System.

No	Date	Title	Ed	Summary
<u>G1078</u> ARM	Dec. 2021	Use of AtoN in the design of fairways & channels	2.0	Guidance on the use of AtoN in the design of fairways including dredged channels and canals, and review of existing AtoN in the area.

Port traffic signals

No	N/I	Date	Title	Ed	Summary
<u>R0111</u> ENG	Nor	Dec 2019	Port traffic signals	1.3	Principle of the system and rules for port traffic signals.

Marking bridges and structures

No	N/I	Date	Title	Ed	Summary
<u>R0113</u> ARM	Nor	Dec 2011	Marking of fixed bridges and other structures over navigable waters	2.1	Applies to fixed bridges and other structures including floating bridges, overhead pipelines.

No	Date	Title	Ed	Summary
<u>G1163</u> ARM	Dec 2021	Marking of Breakwaters and barriers	1.0	Provides guidance for the marking of exposed (above water) and submerged breakwaters..

Marking man-made offshore structures

No	N/I	Date	Title	Ed	Summary
<u>R0139</u> ARM	Nor	Dec 2021	Marking of Man-made offshore structures	3.0	Recommends the members ensure that the marking of man-made structures conforms to the standards and practices specified in the relevant sections of the guidelines.

Marking of Offshore Man-made Structures

No	Date	Title	Ed	Summary
<u>G1162</u> ARM	Dec 2021	Marking of Offshore Man-made Structures	1.0	Information for national authorities, lighthouse authorities and others on marking of Man-made offshore structures.

Marine spatial planning

No	N/I	Date	Title	Ed	Summary
<u>R1010</u> ARM	Inf	June 2017	Involvement of maritime authorities in Marine Spatial Planning (MSP)	1.1	Includes MSP involvement, risk management toolbox, and mitigating measures.

No	Date	Title	Ed	Summary
<u>G1033</u> ARM	Dec 2003	Provision of AtoN for different classes of vessels including high speed craft	1.0	Provides information on consideration for high-speed craft and assessing requirements for the provision of AtoN for different classes of vessels.
<u>G1079</u> ARM	Dec 2009	Establishing and conducting user consultancy by AtoN authorities	1.0	General guidance on consultation but does not preclude the development and implementation of strategies for specific programs.
<u>G1121</u> ARM	June 2017	Navigational safety within marine spatial planning	1.0	Informs AtoN and other maritime authorities of the main elements of the Marine Spatial Planning (MSP) process. It also provides information to other MSP stakeholders and the MSP authority of the underlying navigation factors to be taken into account during the process.



GUIDANCE & PUBLICATIONS

SEARCH IN IALA PUBLICATIONS

CATALOGUE SEARCH IN PUBLICATIONS STANDARDS RECOMMENDATIONS GUIDELINES MANUALS MODEL COURSES IALA DICTIONARY

REPORTS AND PROCEEDINGS OTHER PUBLICATIONS

Catalogue
Search in Publications
Standards
Recommendations
Guidelines
Manuals
Model courses
IALA Dictionary
Reports and Proceedings
Other Publications

This search engine indexes the content of a repository of the current IALA standards, recommendations, guidelines, model courses and manuals, including the IALA Navguide, the VTS manual and the Complementary Use of Lighthouses manual.

These two search operators are supported:

1. **Quotes** to search by **phrase**. Put your query in quotes (" ") for an exact match.
Example: *"bill gates"*. In this case no pages or documents that mention something like "you have to pay this *bill* to open the *gates*" would come up in your search.
2. **Negation** to exclude a term. Put a minus (-) right before the word that you want to remove from search results.
Example: *bill -gates*. In this case all pages or documents mentioning *bill* and NOT mentioning *gates* would be found.
Note the space between *bill* and the minus (-). If you omit the space and use *bill-gates* it will be treated as a phrase, and "*bill-gates*" will come up in your search as well as both *bill* and *gates*.



Powered by SiteSearch360



The World-Wide Academy

Education, Training, capacity building and R&D

The Academy – A strategic asset for IALA

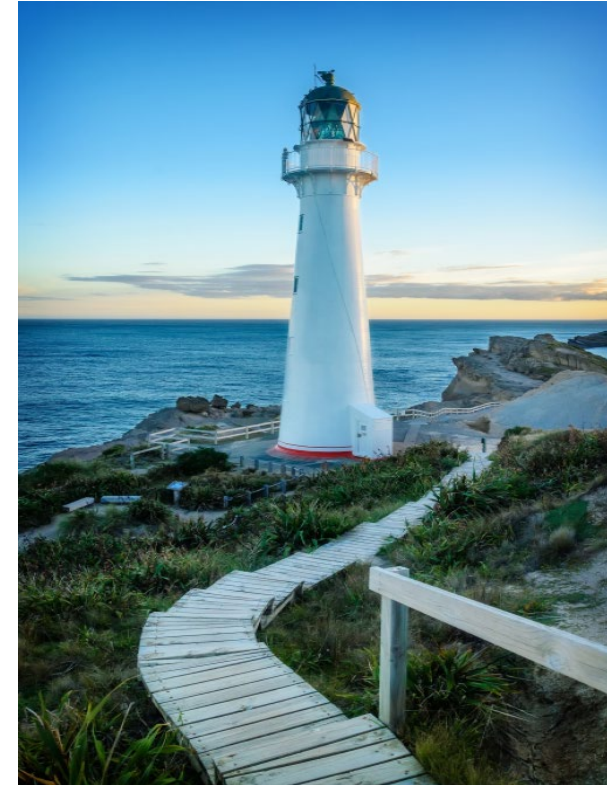
Strategic Vision - Goals for 2026:

Goal 1

Marine Aids to Navigation are developed and harmonized through international cooperation and the provision of standards.

Goal 2

All coastal States have contributed to a sustainable and efficient global network of Marine Aids to Navigation through capacity building and the sharing of expertise.





What we do

The Academy aims to ensure that all coastal States can fulfil the obligations related to Marine Aids to Navigation placed upon them in SOLAS Chapter V and that all coastal States can claim conformance with the relevant IALA Standards.

① ENLIGHTEN

raise the awareness of high-level decision makers of their international obligations relating to safety of navigation;

② EDUCATE

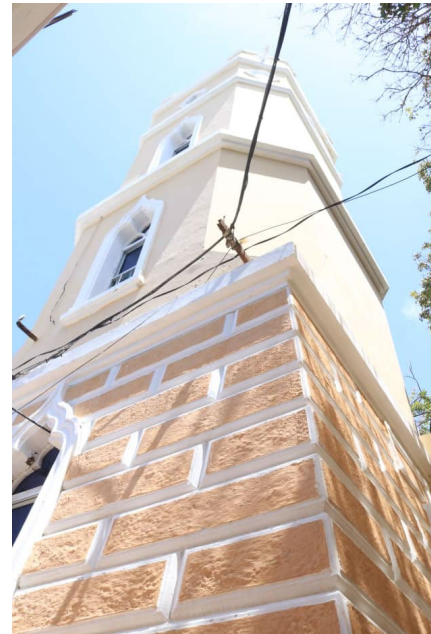
provide a suite of relevant education and training opportunities for as many as possible; and

③ ENGAGE

pursue long-term capacity building activities with coastal States and provide advice on how to overcome challenges.



Assisting coastal States worldwide



**Risk Assessment,
AtoN planning,
AtoN Operations,
Governance and policy,
Procurement training.**

Education and training opportunities

- Vessel Traffic Services
- Aids to Navigation – Management
- Aids to Navigation – Technical



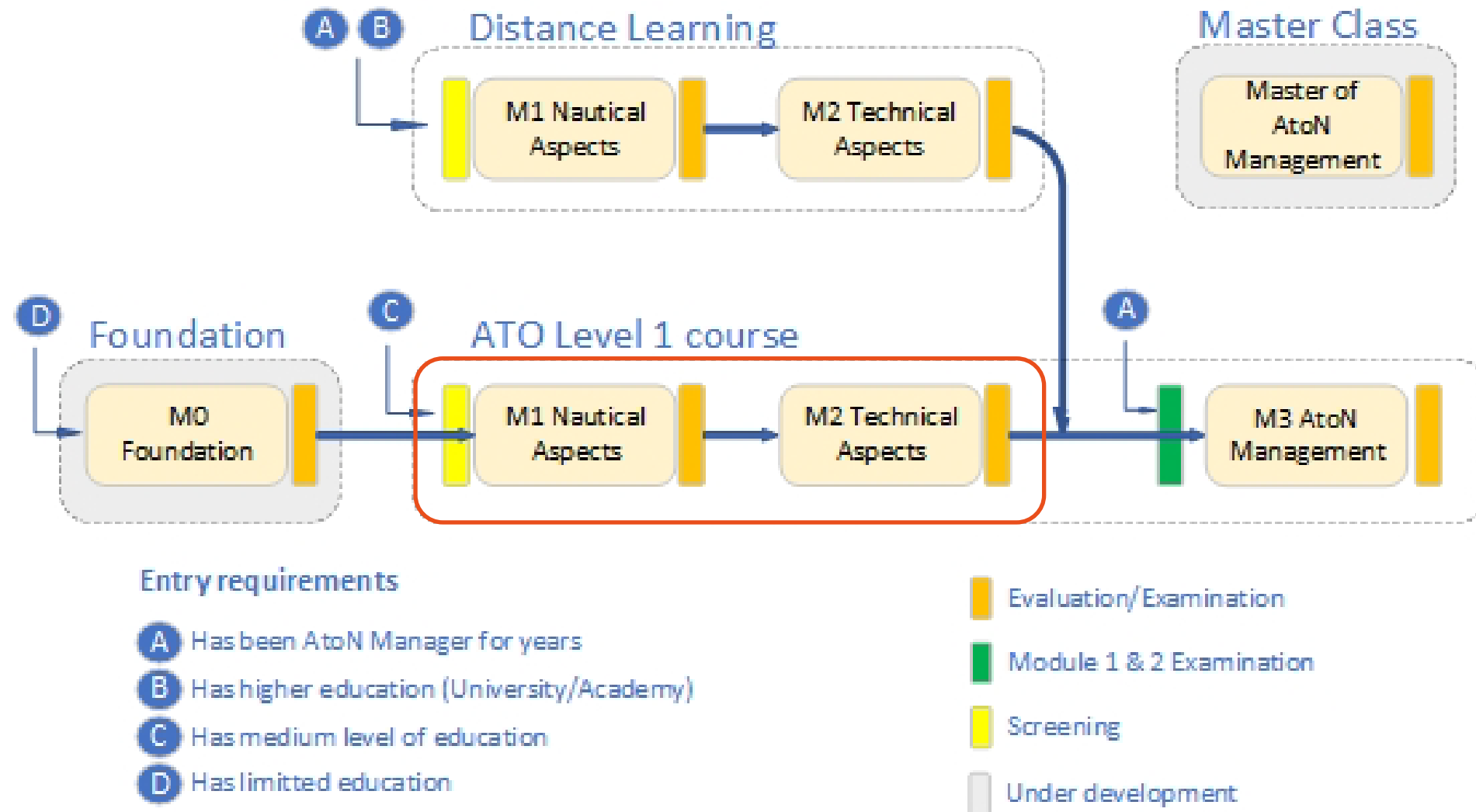
Aids to Navigation Management training

- Level 1.1 – AtoN Manager
- Level 1.2 – Master of AtoN Management
- Level 1.3 – Use of the IALA Risk Management Tools





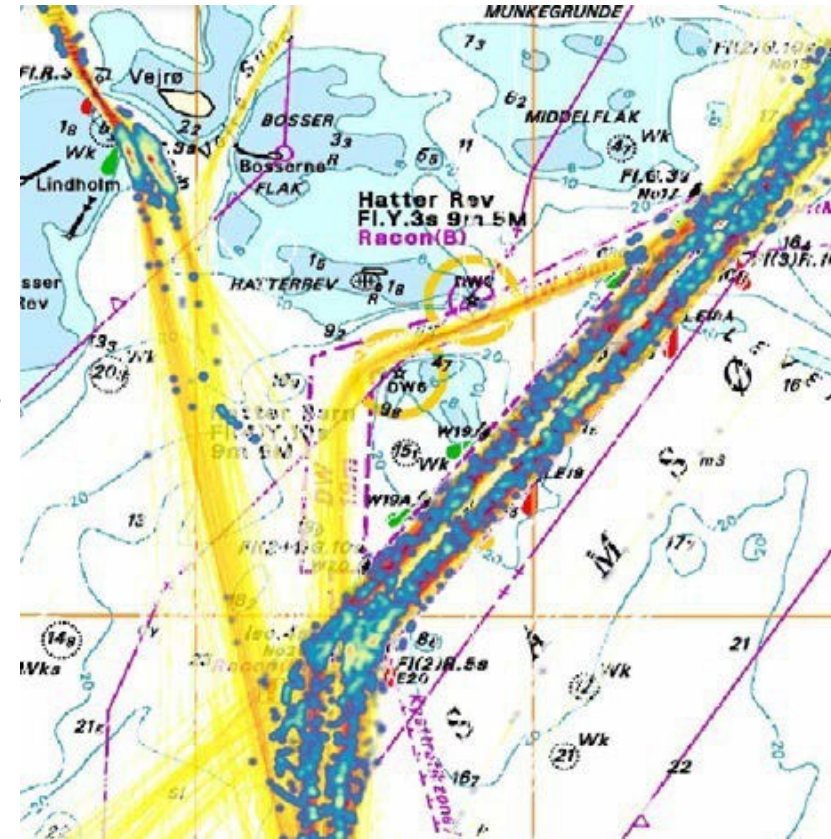
Level 1 AtoN Manager Training Scheme



Risk management training

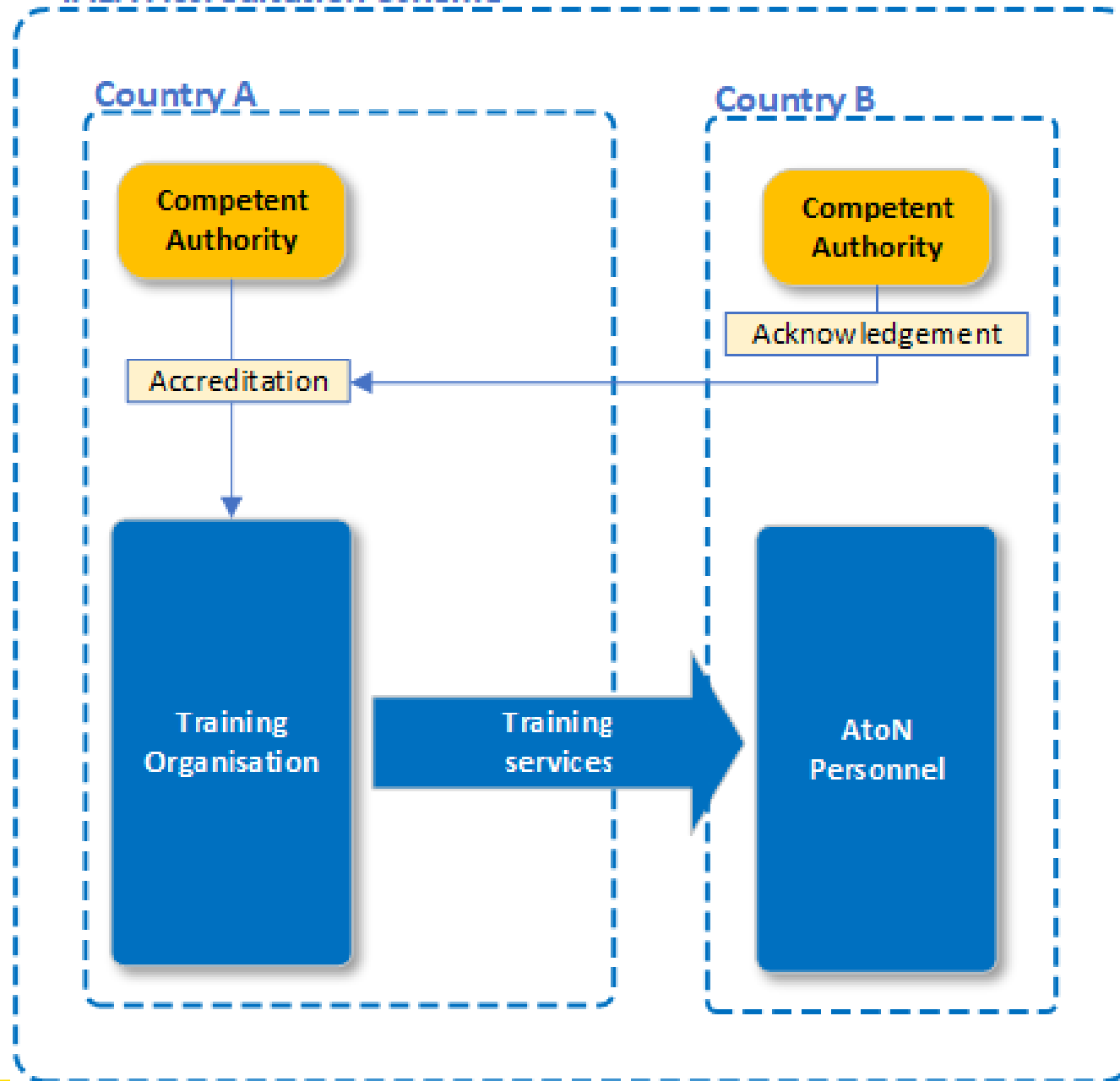
The IALA Risk Management Toolbox training is configured for online learning and adopts a new modular approach.

- Concepts of risk management
- Risk assessment using SIRA
- Risk assessment using IWRAP Mk2
- Advanced IWRAP MK2 modelling
- Conducting a PAWSA workshop





IALA Accreditation Scheme





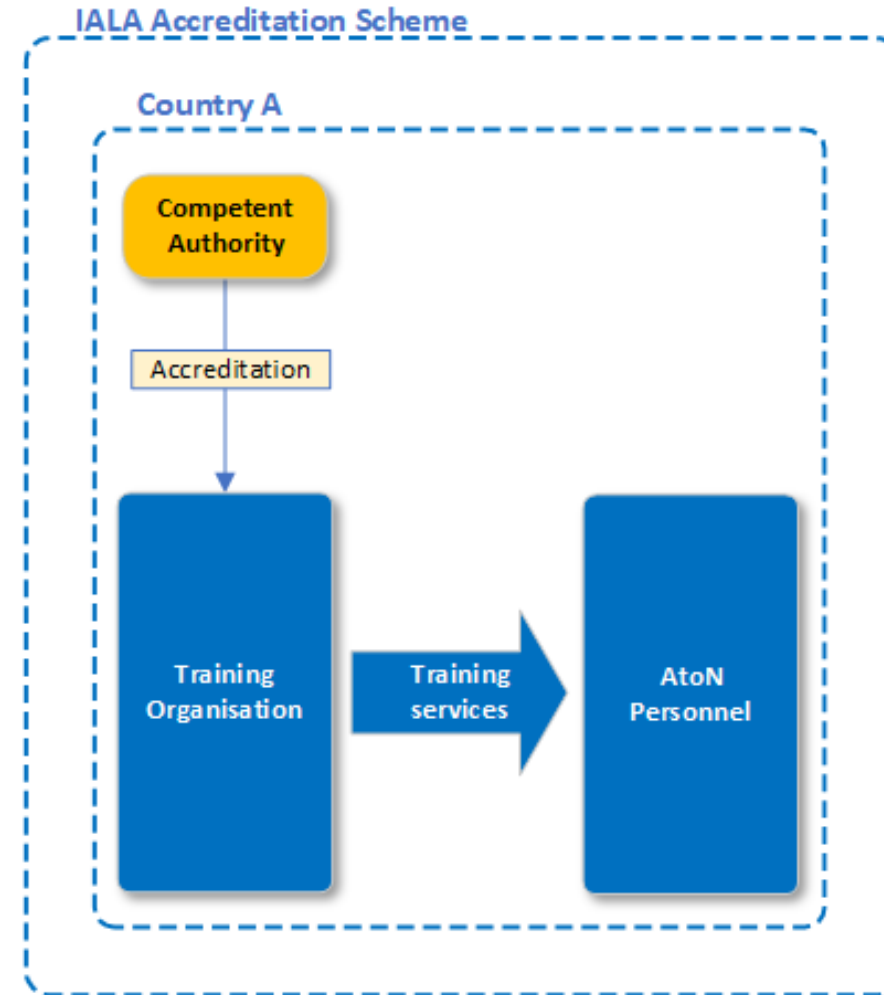
Quality Accredited Training Organisations

Training is available through a network of Accredited Training Organizations.

35 ATO for VTS model courses
in 22 countries










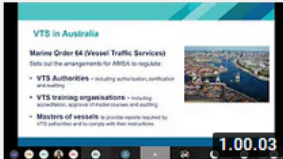
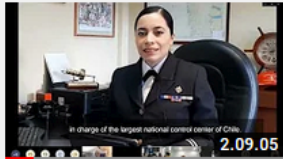
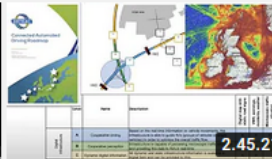







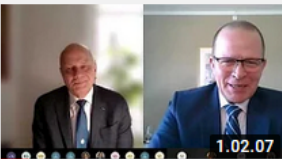

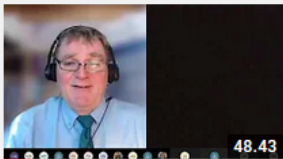

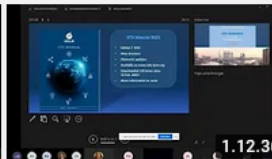
15 ATO for AtoN model courses
in 14 countries

**AtoN Management training
available by distance learning
through the IALA World-Wide
Academy**



IALA technical webinar series



 <p>Academy News 4 Spanish - Guatemala review 73 visninger • for 1 måned siden</p>	 <p>Academy News 4 Guatemala Review 86 visninger • for 1 måned siden</p>	 <p>IALA WWA PRESENTATIONS (ARM14 ENG14 ENAV28)... 116 visninger • for 2 måneder siden</p>	 <p>ENAV28 WG2 MASS and technologies Meeting 91 visninger • for 2 måneder siden</p>	 <p>ENAV28 Presentation on rPNT (Orolia): GNSS jammi... 65 visninger • for 3 måneder siden</p>	 <p>Webinar on the Use of virtual Aids to Navigation 286 visninger • for 3 måneder siden</p>
 <p>IALA Webinar on Evaluation of platforms for the provisio... 160 visninger • for 3 måneder siden</p>	 <p>Webinaire points cardinaux n°3 - Changement de statut... 97 visninger • for 4 måneder siden</p>	 <p>Academy News 3 Lebanon 75 visninger • for 4 måneder siden</p>	 <p>IALA WWA Webinar on VTS Authorisation 213 visninger • for 4 måneder siden</p>	 <p>Webinar WATON Day 2021 406 visninger • for 6 måneder siden</p>	 <p>Seminario Ayudas a la navegación en el entorno... 62 visninger • for 6 måneder siden</p>
 <p>Seminario Ayudas a la navegación en el entorno... 82 visninger • for 6 måneder siden</p>	 <p>WATON Day Teaser 2021 220 visninger • for 6 måneder siden</p>	 <p>Webinar on new IALA documents 160 visninger • for 7 måneder siden</p>	 <p>Academy News 2 Participants 116 visninger • for 8 måneder siden</p>	 <p>WWA Webinar on VTS Training 510 visninger • for 8 måneder siden</p>	 <p>WWA Webinar on VTS Implementation 616 visninger • for 8 måneder siden</p>
 <p>Academy News IALA Symposium 2021 - behind... 314 visninger •</p>	 <p>Digital@Sea Webinar 336 visninger • for 9 måneder siden</p>	 <p>Webinaire Points Cardinaux n°2 131 visninger •</p>	 <p>IALA WEBINAR ARM guidance documents 202 visninger •</p>	 <p>Webinar on AtoN Maintenance 536 visninger •</p>	 <p>Webinar on Council 72 approved documents - Part 3 1.082 visninger •</p>



“Customers” of the World-Wide Academy

Angola
Belize
Brazil
Brunei Darussalam
Chile
Cambodia
Colombia
Comoros
Costa Rica
Curacao
Dem. Republic of Congo
Ecuador
El Salvador
Fiji ++
Gabe| Verde

Gabon
Gambia
Georgia
Ghana
Guatemala
Guinee
Honduras
India
Ivory coast
Lebanon
Liberia
Madagascar
Morocco
Namibia
Panama

Papua New Guinea
Republic of Congo
Senegal
Sierra Leone
Somalia
Tanzania
Timor Leste
Togo
Trinidad & Tobago
Ukraine
Uruguay
Venezuela
Vietnam
Yemen



Delivering as one



Annual coordination meeting



UK Hydrographic
Office



Pacific
Community
Communauté
du Pacifique

Sierra Leone W-Africa WWA and UKHO





The Academy is much more than the three of us



Omar Frits Eriksson



Gerardine Delanoye



Latifa OumouZoune

+ the IALA secretariate (Isabelle) as and an army of consultants:
Jacques, Jean-Luc, Sarah, Dawn, Roger, Colin, James,
Mahesh, David ++



The Future

From a Non-Governmental Organization to an Intergovernmental Organization

IGO – Future delineation between IMO and other IGOs

Regulatory work



Non-binding standards,
recommendations and
guidelines and input into
the regulatory work



Other relevant
International
Organizations.....

Status of the IGO project

- First discussions in the IALA Legal Advisory Panel (LAP) 2010
- Convention Text agreed at a Diplomatic Conference, Malaysia, February 2020
- The French government took the role as depositary of the new convention
- Signature period January 2021 – January 2022, signatures from 50 coastal States
- **Now possible for all UN members to Accede to the convention**
- **We have now 17 ratifications/accessions**
- **When we have 30 ratifications, IALA transforms into an IGO – 2024 ?**





Fifth Pacific Regional Energy and Transport Ministers' Meeting (5th PRETMM), May 2023

- **The New IALA Convention on the International Organization for Marine Aids to Navigation is expected to be on the agenda**
- **The IALA Secretary-General will attend in person**
- **A side meeting explaining the matter**

Recommendation

Since, it is still possible to accede to the convention, it is recommended that:

1. States in the Pacific region consider acceding to the Convention on the International Organization for Marine Aids to Navigation.

Remember the IALA Conference in Brazil, 27th May to 3rd June

Also remember to celebrate the Marine Aids to Navigation Day on 1. July 2023!





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